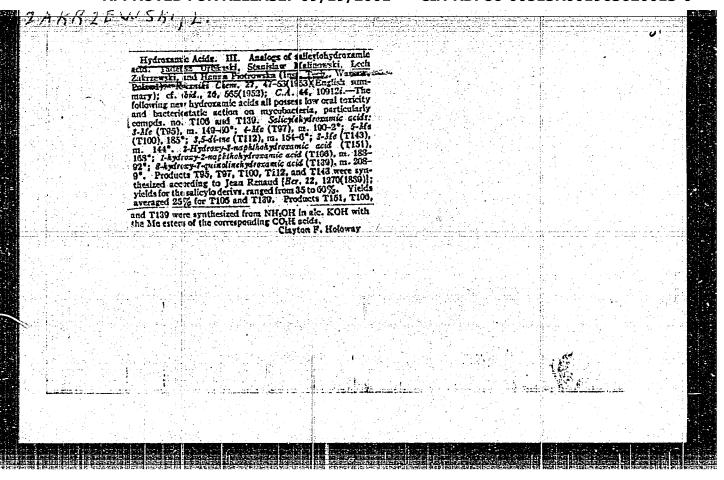
ZAKRZEWSKJL ...

COMPRESENT CONTROL TO HEL RESIDENCE CONTROL TO THE RESIDENCE OF THE PERSON OF THE PERS

POLAND Country : Chemical Technology. Fats and Cils. Waxes. Soaps Category and Detergents. Plotation Agents. : Ref Zhur-Khimiya, No 14, 1959, No Abs. Jour : Fejgin, J.: Tomaszewicz, M.; Zakrzewski, L. Author Institute : Obtainment of Water Emulsions Made with Ti.tle Silicone Oil : Przem. chem., 1958, 37, No 5, 357-358 Orig Pub. : Silicone oils used in the hydrophobization of Abstract pharmaceutical glass and in the obtainment of antiadhesive coverings in casting of plastmasses, in vulcanization, and in other forming processes, may be employed in the form of dilute solutions with organic solvents (benzene toluene, xylene, chloroform, and others). it is more economical to use water



ZAKBRZEWSKI M.

POLAND/Physics of Solids - Mechanical Frozerties of Crystals and E-10

Folycrystalline Compounds

Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 3571

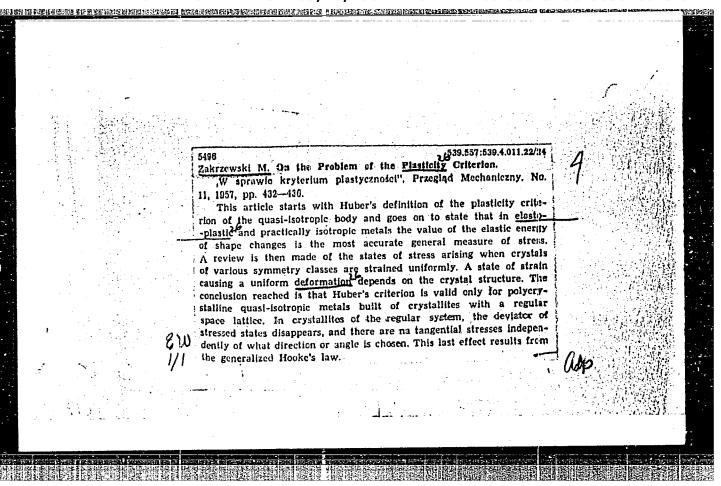
Author : Zakrzewski Marek Inst : Not Given

Title : Plasticity Limit in Steel

Orig Pub: Przegl. mech., 1957, 16, No 6, 227-232

Abstract : No abstract

: 1/1 Card



ZAKRZEMSKI, M.

On the theory of decohesion; a lecture delivered at the All-Polish Welding Conference in Sopot, May 1959. p. 96.

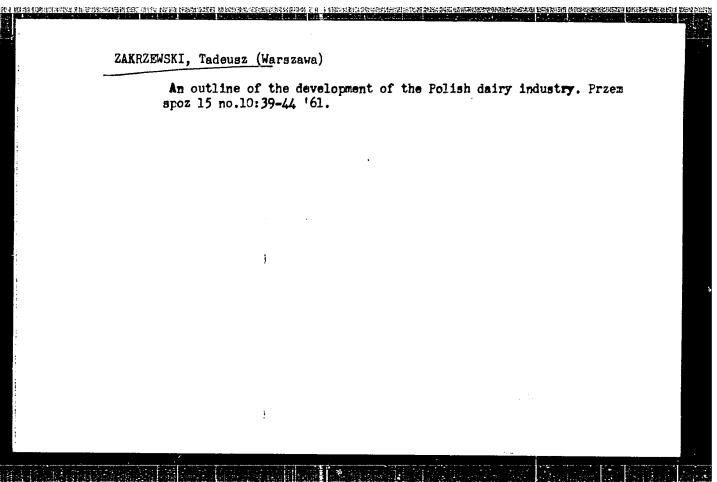
FRZERLAD SPAWALNICTMA. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich i Instytut Spawalnictwa) Warczawa, Foland. Vol. 11, no. 4, Apr. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 8, Aug. 1959. Uncl.

ZAKRZEWSKI, S.

"Infectious diseases in the past and today", p. 8, (ZDROWIE, Vol. 5, No. 8, 1953, Warszawa, Poland)

SO: Monthly List of European Accessions, L.C., Vol. 3, No. 4, April, 1954



CZYZEWSKI, Witold, mgr.,inz.: ZAKRZEWSKI, Tadeusz, inz.; ROHDE, Wladyslaw, technik; PETTKE, Norbert, technik; CYWINSKI, Stefan, inz.; KCZIOWSKI, Tadeusz, technik; CZARNOTA, Zbigniew, technik

Use of cone shaped white cast iron grinders for cement grinding. Enetgetyka przem 10 no.3:106-107 '62.

A degs of congenital communication between the acrts and the right ventrials through Talaniva's binus, redint, hol. 37 nc. 2009-Ano. Ap '6A.

1. Eathwith Bishoudcerj (p.o. Kierownik; dr. med. H. Hofman); or Dakishan Annits air ratelegicznej (Kierownik; dr. E. Borowierown); i.e. forta m Fisiquatologii (Kierownik; der. dr. ded. A. Chroseis-ki) intrybuth Easki i Daiecka w Unrozawie (Dyroktor; prof. dr. med. B. Gernicki).

EdT(m)/EdP(t)/TdP(b) IJP(c) RDW/JD 0.9683**-**65

ACCESSION NR: AF5001416

g/0030/64/007/003/1019/102

AUTHOR: Dziuba, Z.; Zakrzewski, N.

TITIE: Electrical and thermoelectrical properties of HgTe in the temperature range of intrinsic conductivity

SOURCE: Physics status solidi, v. 7, no. 3, 1964, 1019-1025

TOPIC TAGE: conduction band, energy gap, intrinsic temperature range, intrinsic conductivity, conductivity, mercury telluride, electric property, mercury telluride thermoelectric property, mobility, Hall constant, electron effective mass

ABSTRACT: Mercury telluride of high purity was used in the investigation. The Hall constant, mobility, and thermoelectric power of the compound were measured in the 20-400K temperature range of intrinsic conductivity. The experimental results are interpreted in terms of a simple parabolic model of the conduction band. The authors found that the energy structure of mercury telluride is between that of a semimetal and a semiconductor. The energy gap E_g at T=0 is -0.0003 eV $< E_g^{o} < + 0.0003$ eV, the reduced Fermi level has a constant value of $\eta=3.2$, and the effective mass of the electrons is $m_{\rm H}=0.02$ mg. The most probable scattering mechanisms in HgTe in

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1 29682-65

ACCESSION NR: AP5001416

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the temperature range of intrinsic conductivity are scattering by holes at low temperatures, and scattering by optical phonons at high temperatures. It is noted that the limits of the E^O could be estimated with greater accuracy with HgTe samples of higher purity. The authors thank Professor L. Sosnowed for invaluable guidance and inspiring discussions, Dr. W. Giriat and Dr. J. Ginter for their effective help in the investigation, and Docent A. Wolska, Docent J. Kolodziejczak, and Dr. J. Rauluszkiewicz for their critical remarks. Orig. art. has: 17 formulas and 3 figures.

ASSOCIATION: [Dziuba] <u>Institute of Physics</u>, <u>Polish Academy of Sciences</u>, <u>Warsaw</u>; [Zakrzewski] <u>Institute of Physics</u>, <u>Polish Academy of Sciences</u>, <u>Wroclaw</u>

SUBMITTED: 29Sep64

ENCL: 00

SUB CODE: IC, EM

NO HER SOV: 002

OTHER: 022

Card 2/2

CHRONIC STATEMENT RESIDENT SERVICES SERVICES PROGRAMMENT PROPERTY OF SERVICES AND S RIXI/JD $\mathbb{T}_{\theta}(z)$ FMP(%)/FMT SOURCE CODE: GE/0030/65/011/002/0873/0876 ACC NR: AP5024759 AUTHOR: Wojtowicz-Natanson, B.; Zakrzewski, T. ORG: Institute of Experimental Physics, University of Warsaw; Low Temperature Laboratory, Institute of Physics, Polish Academy of Sciences, Wroclaw TITLE: Temperature dependence of the spectrum of photoluminescence in CdSe crystals SOURCE: Physica status solidi, v. 11, no. 2, 1965, 873-876 TOPIC TAGS: photoluminescence, exciton, semiconductor carrier, cadmium selenide, monochromator, photomultiplier tube, light polarization, TEMPERATURE, DEPENDENCE, SPECIERAL DISTRIBUTION ABSTRACT: The temperature dependence of spectral distribution and total intensity due to exciton recombination in CdSe crystals is investigated. The two absorption maxima are at 0.71 μ and 0.65 $\mu.$ The latter band is studied since it is considered that the recombination of excitons bound to ionized acceptor centers leads to the emission of this band. The luminescence of single CdSe crystals, excited by short wave radiation from a high pressure mercury lamp, was analyzed with a glass prism monochromator. A photomultiplier tube served as a detector. The spectral resolution was 0.005 ev. Measurements were carried out in the 300-4.2°K temperature range. Two curves were obtained for the two polarizations of the emitted light. The separation of the curves is 0.024 ev, which, within the margin of experimental error, agrees with the value of Card 1/3

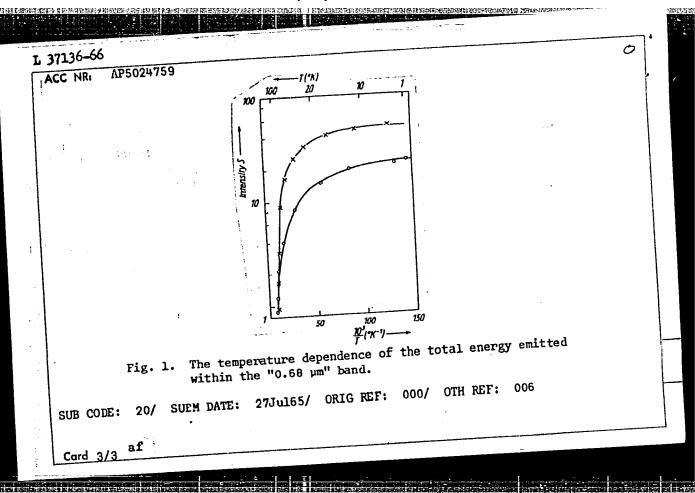
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ACC NR: AP5024759

the energy interval of the two upper valence bands due to the crystal field splitting. Fig. 1 shows the logarithm of intensity S plotted against the inverse of temperature. The slope of the initial rectilinear part is the same for all the CdSe crystals studied but the value of T where the knee-point appears varies for different crystals, indicating that the number of exciton complexes increases with decreasing temperature until saturation occurs. Since the value of the activation energy of the luminescence center equals the sum of the dissociation energy (E = 0.015) of the exciton, acceptors probably do not capture excitons in a single act to form complexes, but rather hole and electron are bound successively to an acceptor. The authors express their thanks to Dr. W. Wardzynski for his interest in this work, stimulating discussions and advice; to Professor L. Sosnowski for his kind permission to perform this work in his laboratory; and to Dr. I. Filinski and Dr. W. Giriat for their valuable suggestions. Orig. art. has: 3 figures.

Card 2/3

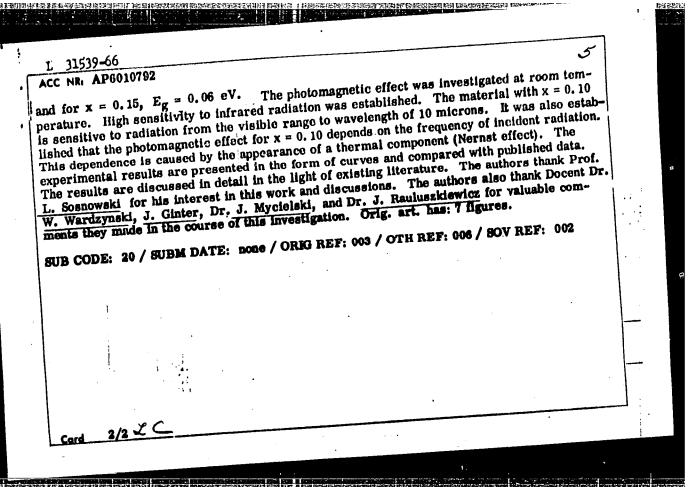


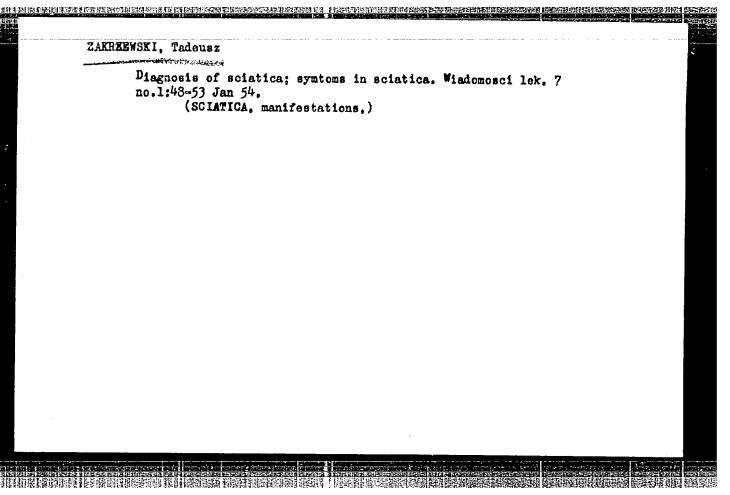
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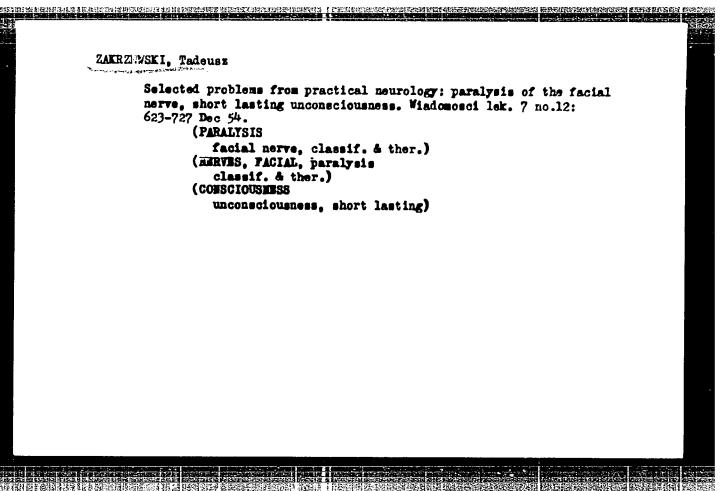
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医进行性外部分元化的 医疗法 医性动脉性阴管 医皮肤性神经 医眼 网络斯特里特拉特 经通过电路 医内耳氏试验 医

31539-66_EIC(f)/T/EMP(t)/ETI IJP(c) RDW/JD SOURCE CODE: PO/0053/66/000/003/0111/0177 ACC NR. AP6010792 AUTHOR: Baranowski, J.; Dziuba, Z.; Galazka, R.; Giriat, W.; Szymanska, W. Zakrzewski, T. ORG: Institute of Experimental Physics, Warsaw University (Instytut Fizyki Doswiadczalnej Uniwersytetu Warszawskiego); Physics Institute, PAN (Instytut Pizyki, PAN) TITLE: Electrical and photomagnetic properties of single crystals of the CdxHg1-xTe semiconductor system SOURCE: Przeglad elektroniki, no. 3, 1965, 111-117 TOPIC TAGS: single crystal, crystal property, semiconductor crystal, electric property, photomagnetic effect ABSTRACT: The paper presents some results of investigations on the CdxIIg1-xTe system. ABSIRACI: The paper presents some results of investigations on the cox_{HEI} -x to system. Single crystals of x = 0.00, 0.05, 0.10, and 0.15 were used for the investigations. The dependence of electrical conductivity δ and the Hall constant R_H on temperature in the range from 4.2K to 400K was investigated. The dependence of R_H and δ on magnetic field intensity was also measured. The materials investigated show a high electron mobility; the maximal values of electron mobilities are of the order of 10^5 cm²/Vsec. Mobility increases with investigated ϵ and attains the maximum values for ϵ at about 0.1. In these materials, at temperature ϵ and attains the maximum values for ϵ at about 0.1. In these materials, at temperature creasing x and attains its maximum values for x at about 0.1. In these materials, at temperatures below room temperature there is a very strong dependence of RH and δ on magnetic field intensity. It was determined that for x = 0.00 the width of the forbidden energy gap at the temperature of absolute zero is $E_g = 0^{\pm} 0.0003$ eV. For x > 0, $E_g > 0$, and x = 0.05 it is $E_g = 0.015$ eV,







WRZESNIOWSKI, Kazimierz; BORSUKOWSKI, Władysław; BORTNIK, Pawel;

ZAKRZEJSKI, Tadeusz

Application of neuroplegic drugs and of physical hypothermia in a case of severe cerebrocranial injury. Polski tygod. lek. 11 no.39:1675-1678 24 Sept 56.

1. (Z Oddziału Chirurgicznego Wojskowego Szpitala Lotniczego) adres: Warszawa, al. Na Skarpie 65 m. 9.

(HIBERNATION, ARTIFICIAL, in head inj. (Pol))

(HEAD, wounds and injuries, ther., artif. hibernation (Pol))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620013-0"

LODZINSKI, Kazimierz; SWIDERSKI, Jerzy; ZAKRZEWSKI, Tadeusz

Attempted examination of children in shock due to burns by a polygraphic method. Pediat. pol. 37 no.7:687-692 Jl '62.

1. Z Kliniki Chirurgii Dzieciecej Kierownik: prof. dr med. W.Poradowska i z Zakladu Fizjopatologii Instytutu Matki i Dziecka w Warszawie Kierownik: doc. dr med. A.Chroscicki Dyrektor: prof. dr med. B.Gornicki. (BURNS in inf & child) (SHOCK in inf & child)

POLAND

ZAKRZEWSKI Tadousz [Affiliation not given]

"'Neurologia dla Lekarza Szkolnego' (Neurology for the School Physician) by Toofan DOMZAL. Warsaw, 1962."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 30, 22 Jul 63, p 1119

Abstract: Book review of the monograph listed in the title. The reviewer discusses the book from the standpoint of a guide for school physicians in relation to various diseases of school children, and finds the selection of topics lacking. In his opinion, it is however an addition to the physician's library, to the extent covered by the author. There are no references.

1/1

16

JASKIEWICZ, Arkadiusz- ZAKRZEWSKI, Tadousz

Thermal processes in barium titanate. Matem fizyka astronom Wroclaw 3:159-165 '62.

1. Laboratory of Low Temperatures, Institute of Physics, Polish Academy of Sciences, Wrcclaw Branch.

BIELOWICZ,A.; BOGUNIL-OCZKOWSKA, Maria; KRUKOWA, Anna; ZAKRZEWSKI, T.

Gombined congenital cardiac defects with rectal atresia. Ped.
Pol. 40 no.1391-94 Ja *65

中的《图书记》(1915年)(1915年)(1916年))(1916年)

1. Z Kliniki Chirurgioznej (Kierownik: prof. dr. m.d.
W. Poradowska); z Zakladu Finjopetologii (Kierownik: d. mec.
J. Swiderski); z Kliniki Niemowlewej (p.o. Kierownik: dr. med.
H. Hofman); z Zakladu Rentgenodlagnostyki - (Kierownik: doc. dr.
med. S. Kubicz) oras z Zak adu Anatomii Patologicznej (Kierownik:
dr. med. K. Borowlow) Instytutu Matki i Oziecka w Warszawie
(Dyrektor: prof. dr. med. B.Gorniski).

ZAKRZEWSKI, Z.

Property tests of varactor diodes in the centimeter waste value.

Przem inst telekom prace 13 no.42/4,3:61-67 '63.

1. Technical University, Gdansk.

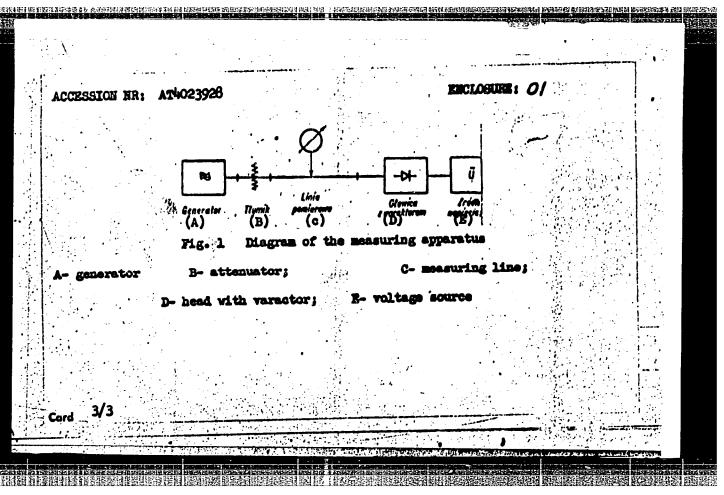
ACCESSION NR: AT4023928 Zakrzevski, Z. (Zakshevski, Z.) AUTHOR: TITLE: Analysis of varactor diode propeties in centimetric wave range SOURCE: Warsaw. Przemyslowy Instytut Telekomunikacji. Prace, v. 13, no. 42-43, 1963 TOPIC TAGS: varactor, varactor diode, varactor property, centimetric wave, diode, semiconductor, microwave impedance measurement, transmission line discontinuity ABSTRACT: The method of an evaluation of equivalent circuit elements of a varactor diode in the range of microwaves is given. The investigated diode is placed in a detecting head and an input impedance of the head is measured. The Mittra method of the investigation of transfer impedance is used to define the properties of the p-n juncture. The described method takes into account the head losses. The results are obtained quickly without the necessity for making time consuming calculations. The polarized voltage regulation presents no difficulties. The method is particularly useful in the case of studying with one frequency many dicdes of Card 1/3

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identical construction. The many the author in the 10 cm band	easurement of vare 1.	ctors has been car	rried out	
ASSOCIATION: Politechnika Gdar	naka (Danzig Poly			
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ZAKRZEWSKI, Z.

From the achievements of the leading milling combines in the Soviet Union. p. 28.

GOSPODARKA ZBOZOWA, Vol. 7, no. 2, Feb. 1956.

POLAND

SOURCE: EAST EUROPEAN ACCESSIONS LIST LC Vol. 5, no. 7, August 1956.

ZAKRZEWSKI, Z.

ZAKRZEWSKI, Z. The research works of the All-Union Grain Institute in Moscov. p. 9.

Vol. 7, no. 7, July 1956 GOSPODARKS ZBOZOWA AGRICULTURE Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, Feb. 1957

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ROISKI, Stanislaw; ZAKRZEWSKI, Zdzislaw

Preparation of protein hydrolysates for parenteral administration by means of acid hydrolysis. Acta pol. pharm. 19 no.5:421-425 '62.

1. Z Katedry Chemii Farmaceutycznej Akademii Medycznej w Warszawie Kierownik: prof. dr S. Rolski.

(PROTEIN HYDROLYSATES) (CHEMISTRY, PHARMACEUTICAL)

P/521/62/000/009/002/005 E032/E514

AUTHOR: Zakra

Zakrzewski, Zenon (Gdańsk)

TITLE:

Electrical parameters of plasma in a very high

frequency electromagnetic field

SOURCE:

Polska Akademia Nauk. Instytut Maszyn Przeplywowych.

Prace. no.9, 1962, 15-30

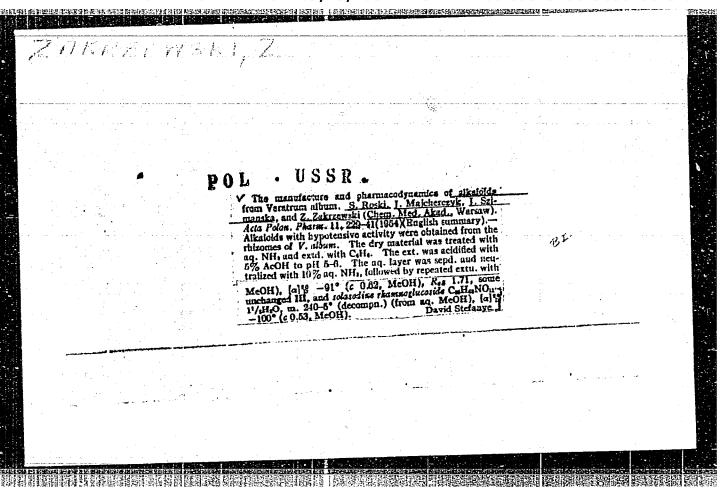
TEXT: This theoretical paper is concerned with the propagation of VHF electromagnetic waves in plasma in the case of electron densities below 1%, so that electron-electron and electron-ion collisions may be neglected in comparison with electron-atom collisions. A further simplification involves the neglect of ion currents as compared with electron currents. The plasma is assumed to be uniform and occupying all space. The first section deals with a case where there is no constant magnetic field and an analysis of Maxwell's equations is carried out leading to expressions for the permittivity of plasma, the attenuation constant as a function of electron density and frequency, and the phase constant as a function of the electron It is shown that the wave will not propagate if the density. Card 1/2

Electrical parameters of plasma ... P/521/62/000/009/002/005 E032/E514

wave pulsatance is less than the pulsatance of the electrons about their mean positions. The plasma will therefore act as a filter. When the electron-atom collision frequency is zero there is a discontinuous cut-off frequency, but as the collision frequency increases the cut-off frequency is approached more and more gradually. The second section deals with VHF waves in a plasma placed in a constant magnetic field. Two special cases are considered: the propagation along and at right-angles to the constant magnetic field. Again the filter properties of plasma are established and it is shown that in this case there is more than one cut-off frequency. Throughout the analysis the plasma is looked upon as a linear medium, i.e. it is assumed that the electromagnetic fields are not strong. There are 8 figures and 2 tables.

SUBMITTED: June, 1961

Card 2/2



ZAKRZEWSKI, Z.

AGRICULTURE

Periodicals: ZAGADNIENIA EKONOMIKI ROLNEJ. No. 4, 1958

ZAKRZEWSKI, Z. Some problems of the grain monopoly in Poland. p. 3.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

POLAND/Organic Chemistry - Naturally Occuring Substances and Their Synthetic Analogs.

G-3

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14647.

Author : Zakrzewski Zdzislaw Inst

Title : Chemistry of the Alkaloids of Hellebore.

Orig Pub: Farmac. polska, 1957, 13, No 3, 61-66.

Abstract: A review.

ZAKKEL - JA., LOZICIAL

Card : 1/1

ZAKRZEWSKI, Zygmunt, inz.

Construction of farmhouses for municipal agricultural supervisors in 1961.

Budown wiejskie 14 no.3:12-14 Mr '62

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620013-0"

TITLE: Some possibilities of measuring the electrical parameters of plasma using microwaves

SCURCE: Polska Akademia Nauk. Instytut Maszyn Przeplywowych. Prace, no. 21, 1964, 3-22

TOPIC TAGS: plasma, plasma electrical property, microwave radiation, dielectric constant, electron collision frequency, electron concentration, attenuation meter, phase shift meter

ABSTRACT: The paper discusses the transmission method of measuring the electrical parameters of plasma; this method consists of measuring and analyzing the attenuation and phase shift of microwave radiation during its passage through a layer of plasma. The theory of the electrical parameters of plasma (complex dielectric constant, electron collision frequency, electron concentration) is presented and appropriate formulas for the parameters are derived. The dependence of the relative dielectric constant of plasma on collision frequency and electron concentration is graphically depicted. The phenomena occurring during the passage of an electromagnetic wave through a layer of homogeneous. Card 1/4

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plasma are analytically investigated and the formulas for the attenuation and phase shift of the transmitted wave are derived. A system, shown in Fig. 1 of the Enclosure, for attenuation and phase shift measurement in plasma is described. The mothods of determining the electron concentration and the electron collision frequency in plasma are also discussed. It is concluded that in the general case, such determinations involve intricute computations or the use of special normalized plots of the transmission coefficient. An analysis of possible simplifications of the interpretation of the experimental results for the case when the concentration of electrons in plasma is lower than the critical concentration and when the frequency of the transmitted radiation is well above the collision frequency is given. A number of graphs simplifying the computations are also given, The analysis is extended to the case of inhomogeneous distribution of electron concentration in the direction of wave transmission. The results obtained make it possible to compute the collision frequency and the mean concentration of electrons in such a plasma. A method is also developed for estimating the maximum concentration of electrons in a layer having an arbitrary distribution of electron concentration. The application of the method is limited to static measurements where controlling the position of the attenuator and phase shifter by hand is sufficient. It can be used, however, for dynamic measurements

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after some modific and the frequency of attenuation and pha plasma layer and the ASSOCIATION: In	ise shifting of the he microwave was	microwave radive frequency. (iation as well as orig. art. has: 10	on the thickness of figures and 73	formelas.
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21033 s/058/61/000/005/037/050

AUTHORS:

Lepeshinskaya, V.N., Borisov, V.L., Zakrevskiy, V.A.

The dependence of the coefficient of secondary electron emission on the incidence angle of primary electrons TITLE:

Referativnyy zhurmal. Fizika, no.5, 1961, 323, abstract 5Zhl5 PERIODICAL:

("Nauchno-tekhn. inform. byul. Leningr. politekhn. ir-t", 1960,

no 3, 79 - 83)

The authors derived the expression for the coefficient of secondary electron emission 6 depending on the incidence angle of primary electrons y under the following assumptions: 1) the path of primary electrons in a solid is rectilinear; 2) the number of excited electrons is proportional to the energy lost by the primary electron; 3) the relation between the range of the primary electron in a solid and its energy is linear; 4) distribution of secondary electrons in the spot of their origination is isotropic; 5) secondary electrons in a solid do not suffer scattering; 6) absorption of secondary electrons proceeds according to an exponential law; 7) probability of escape of the secondary electron which

Card 1/2

21033

The dependence of the coefficient ...

8/058/61/000/005/037/050 A001/A101

reached the surface does not depend on its energy. The course of the theoretical curve $\Im(\varphi)$ agrees satisfactorily with-the course of the experimental relation for alloy CuBe plotted according to data of H. Salow ("Phys. Z.", 1940, v 41, 434). There are 18 references.

[Abstracter's note: Complete translation.]

Card 2/2

MODEL', A. (Leningrad); ZAMREVSKIY, V. (Leningrad)

Device with a measuring bridge. Radio no.3:37-39 Mr '61.

(Transistors--Testing)

(Transistors--Testing)

28098 \$/181/61/003/009/032/039 B108/B138

54130 AUTHORS: 1043

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Zhurkov, S. N., Tomashevskiy, E. Ye., and Zakrevskiy, V. A.

TITLE:

Study of macroradicals formed in mechanical destruction of

polymers

PERIODICAL: Fizika tverdogo tela, v. 3, no. 9, 1961, 2841-2847

TEXT: This is a study of the electron paramagnetic resonance spectra observed during the mechanical destruction in a high vacuum of such polymers as polymethyl metacrylate, polystyrene, polyvinyl acetate, etc. For this purpose the authors devised an electron paramagnetic resonance spectrometer with crystal detector which operated with a high-frequency modulated magnetic field. Holl vibrations were excited in a liquid-

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nitrogen cooled cylindrical resonator (Ref. 7: N. N. Bubnov, A. G. Semenov. PTE, no. 1, 92, 1959). In this resonator were placed the specimens and a special device to cut shavings from the polymers in a vacuum of 10⁻⁵ - 10⁻⁶ mm Hg. The sensitivity of the spectrometer was about 5·10¹¹ spins. The paramagnetic absorption signal was amplified Card 1/4

28098 s/181/61/003/009/032/039 B108/B138

Study of macroradicals formed in ...

on modulation frequency and, after phase detection, was observed on an oscilloscope. The spectrum of polymethyl metacrylate shavings at room temperature consisted of five equidistant lines splitting of 23 coreted and four weaker intermediate lines. At low temperature, the essential shape of the spectrum was the same. The central part, however, was slightly asymmetric. When the sample was heated up to room temperature, the normal spectrum appeared again. This spectrum corresponds to the radical

in which the free electron interacts with one or two of the four $\beta\text{-protons}\text{.}$ After repeated cooling the low-temperature spectrum does not appear again. This is due to a second, more active radical R_1

when heated. The free electron in this radical interacts with one proton only. Polystyrene shows a weak spectrum at low temperatures. This

Card 2/4

CIA-RDP86-00513R001963620013-0" **APPROVED FOR RELEASE: 09/19/2001**

28098 s/181/61/003/009/032/039 B108/B138

Study of macroradicals formed in ...

spectrum indicates a radical of the shape

in which the free electron may interact with the hydrogen atoms of the chain or with those of the benzene ring. A clear triplet appears in the case of polyvinyl acetate at low temperature. The radical ascribed to this triplet is

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where the free electron weakly interacts with one of the protons of the methylene group. The presence of oxygen at room and at low temperature methyrene group. The production of the radicals. A. Ya. Savostin is thanked for leads to a peroxidation of the radicals. assistance. There are 6 figures and 15 references: 5 Soviet and 10 non-Soviet. The three most recent references to English-language Card 3/4

28098 S/181/61/003/009/032/039 B108/B138

Study of macroradicals formed in ...

publications read as follows: M. C. R. Symons. J. Chem. Soc., 277, 1959. R. Florin et al., Tras. Farad. Soc., 56, 1304, 1960. D. W. Ovenall, J. Polymer Sci., XLI, 199, 1959.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR Leningrad (Physicotechnical Institute imeni A. F. Ioffe of the AS USSR, Leningrad)

SUBMITTED: May 26, 1961

Card 4/4

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٠.	L 10708-65 EWT(m)/EPF(EWP(1) Pc-4/Pr-4 AEDC(b)/RAEM(c)/ASD(a)-5/ ESD(gs)/ESD(t)/SSD/RAEM(1)/AFWL/AS(mp)-2/RPL RM
	ACCESSION NR: AP4044676 S/0120/64/000/004/0102/0104
	AUTHOR: Zakrevskiy, V. A.; Tomashevskiy, E. Ye.
	TITLE: Electron paramagnetic resonance spectrometer for the 8-mm band
************	SOURCE: Pribory* i tekhnika eksperimenta, no. 4, 1964, 102-104
	TOPIC TACS: spectrum analyzer, electron paramagnetic resonance, spectrometer, resonator Q factor, magnetic field modulation, unpaired electron, EPR, EPR spectrometer Q
	ABSTRACT: An electron-paramagnetic resonance spectrometer, with direct detection and he modulation of the magnetic field operating
	in the 36-Gc range, is described. The basic structural elements of this instrument are as follows: a cylindrical reflex resonator
*	generating H ₀₀₁ -mode oscillations is enclosed in one arm of a wave- quide bridge. The height and diameter of the resonator are identi-
	cal (11 mm), which insures maximum Q for a given mode of oscillation.
1	

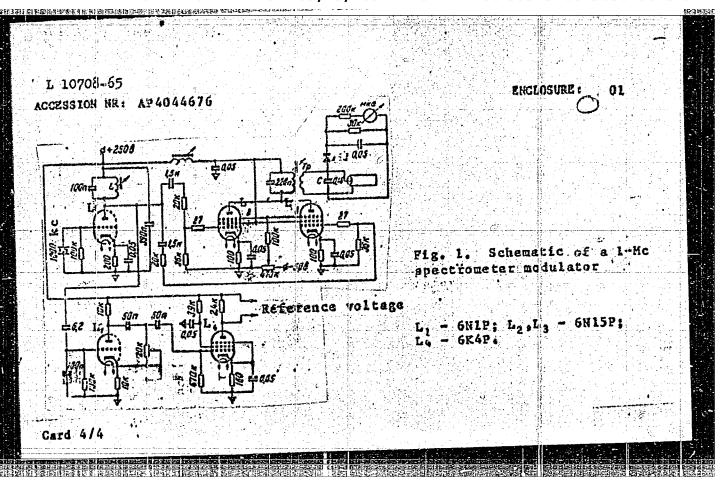
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ACCESSION NR: AP4044676

Ampoules with the matter under study are placed through a 2.5-mm aperture in the resonator wall, which results in a loaded resonator Q of 4×10^3 . A weak modulating field is formed by a loop placed inside the resonator. Voltage for the modulation coil and reference voltage for the phase detector of the signal amplifier is supplied from the modulator (see Fig. 1 of the Enclosure). It consists of a quartz-crystal master oscillator, a power amplifier, a phase-shifter, an a reference-voltage amplifier. The EPR signal amplifier and klystron tuning circuitry are basically the same as in existing 3-cm spectrometers. A magnetic field intensity of v13 koe is attained by an iron-clad electromagnet with a 17-mm gap. The spectrometer sensitivity was evaluated by analyzing the EPR spectrum produced in a standard sample of solid DFPG (Diphenylpicrylgidrazil) Containing a small number of unpaired electrons. The amount of paramagnetic material was determined by estimating the crystal's dimensions under a microscope and by recording its EPR signal in the 3-cm band with a spectrometer of known sensitivity. The signal-to-noise ratio shows. that the sensitivity of the spectrometer described is better than

Card 2/4

	R: AP4044676	
3-cm band s	pectrometer s.	proximately an order better than in similar Orig. art. hast 2 figures.
ASSOCIATION Physical En	: Fiziko-tekh gineering, AN	
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ACCESSION NR: AP4039695

s/0181/64/006/006/1912/1914

AUTHORS: Zhurkov, S. N.; Zakrevskiy, V. A.; Tomashevskiy, E. Ye.

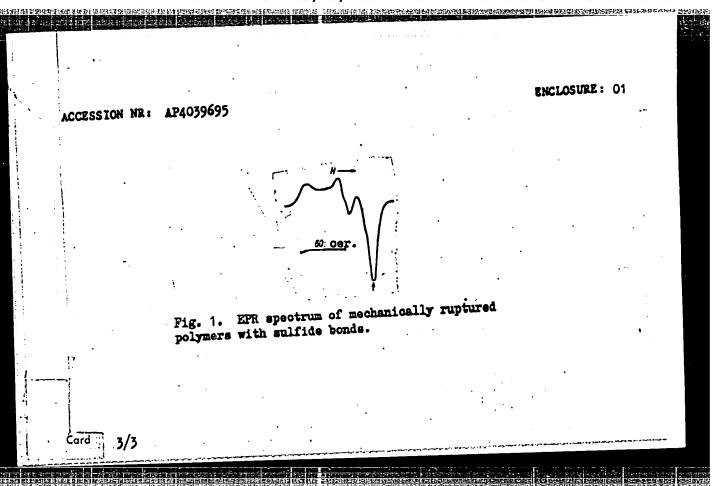
TITLE: The formation of free radicals during rupture and deformation of polymers containing sulfide bonds

SOURCE: Fizika tyerdogo tela, v. 6, no. 6, 1964, 1912-1914

TOPIC TAGS: free radical, polymer, electron paramagnetic resonance, cross link, PE 1301 radiospectrometer, rubber, albumin, Thickol

ABSTRACT: The authors present data on a number of synthetic and natural polymers with sulfur cross links: vulcanized rubber (ebonite and cured rubber from natural rubber), Thiokol, and cystine-bearing albumin (horn and hair). The EPR spectra of all samples were recorded on a standard PE-1301 radiospectrometer with 3-cm range. During mechanical rupture all the indicated polymers exhibited a characteristic asymmetrical EPR spectrum, as shown in Fig. 1 on the Enclosure. The authors believe that this EPR spectrum must be due to radicals of the type R--S, formed by rupture of relatively weak C--S and S--S bonds. In Thiokol the observed EPR signal may be caused either by rupture of the cross link or by rupture of the sulfide bonds in

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	has: 2 figures.	okhni ahesk	iy institut i	į.	•		:
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	ASSOCIATION: F121Co- (Physicotechnical Inst: SUBMITTED: 11Feb64 SUB CODE: MT	itute AN S				ENCL:	01 003
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	(Physicotechnical Andrews SUBMITTED: 11Feb64	itute AN S	. He 30% 1			ENCL:	1.



ZAKREVSKIY, V.A.; TOMACHEVSKIY, E.Ya. An Samma electron paramagnetic resonance spectrometer. Prib. i (MIRA 17:12) tekh. eksp. 9 nc.4:102-104 J1-Ag 164. 1. Fiziko-tekhnicheskiy institut AN SSSR.

ZAKREVSKIY. V.F., inshener.	
Longitudinal chain conveyer on pontoons. Der. prom. 6 no.4 Ap 157	4: <i>24</i> A 10:6)
l. Spichechnaya fabrika "Mayak". (ImmberTransportation)	

GRIGOR'YEV, V.V.; ZAKREVSKIY, V.S.; BURNYKH, V.S.; KOBTSEV, A.F.; TKACHENKO, M.F.

Hydraulic efficiency of Donets gas pipelines. Gaz. delo no.2: 25-29 '64. (MIRA 17:9)

1. Donetskoye upravleniye magistral'nykh gazoprovodov i Ukrainskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta prirodnogo gaza.

ACCESSION NR: APLOL7057

s/0286/6L/000/018/0058/0058

AUTHOR: Zakrevskiy, Ye. S.

TITLE: A gauge for measuring the level and the density of liquids. Class G, No. 165322

SOURCE: Byul. izobr. i tovar. snakov, no. 18, 1964, 58

TOPIC TAGS: liquid level, liquid density, induction gage, manometer

ABSTRACT: This Author Certificate introduces a gauge for measuring the level and the density of liquids contained in vessels, under pressure or in vacuum. The gauge (see Fig. 1 on the Enclosure) contains a membrane and a sylphon connected to an induction gauge. To increase the accuracy of a measurement, the sensitive element of the level and density gauge is made to form a manometric system consisting of a container and a manometric spring supporting the core of the induction gauge. Orig. art. has: 1 diagram.

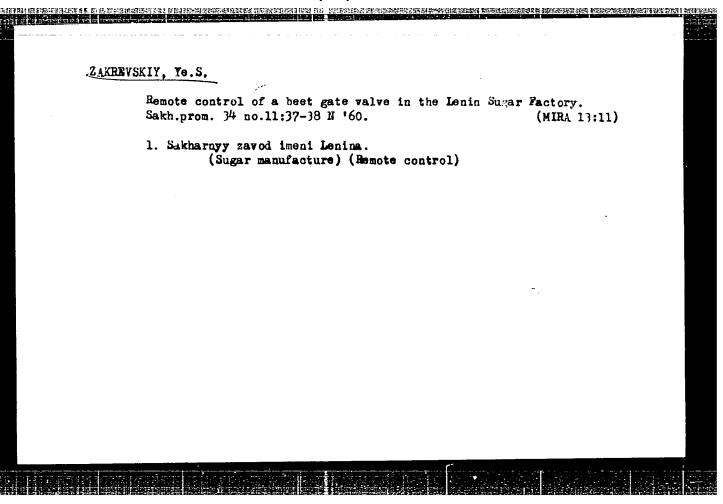
ASSOCIATION: none

SUBHITTED: 12Mar62

SUB CODE: IE, ME

NO REF SOV: 000

OTHER: OO



ZAKREVSKIY, Ye.S.

Automatic level control in the evaporation plants. Sakh.
prom. 36 no.7:35-39 Jl '62. (MIRA 17:1)

1. Zavod "Sakhavtomat".

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620013-0"

ZAKREVSKIY	Apparatus for continuous determination and regulation of the density of liquids. Khar.prom. no.1:12-18 Ja-Mr '62. (MIRA 15:8)		
		(Sugar industry—Equipment and supp	lies)
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	ZAKREVSKIY, Ye.S.	,
	Pressure regulator of the diffusion unit of the Lenin Sugar Factory. Sakh. prom. 35 no. 1:37-38 Ja '61. (MIRA 14:1)	·
	1. Sakharnyy zavod imeni Lenina. (Sugar manufacture)	
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"APPR	OVED FOR RELEASE: 09/19/2001 C	IA-RDP86-0	00513R001963	3620013-0
ZAKREVS	KIY, Ye.S.			
	Automatic densitometer for sugar sirup. 38-44 \$ 160.	Sakh.prom. (MIRA	34 no.9: 13:9)	ė
	1. Sakharnyy zavod imeni Lenina. (Densitometers)			

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ANBINDER, Ya.Ye. [Anbinder, IA.IE.]; SHPAKOVSKIY, N.Ye. [Shpakovs'kyi, N.E.];

DARBINYAN, S.A.; KOMAROV, V.V.; KOMAROVA, T.V.; KOZLOV, Yu.A.; KONCKOTIN,
L.P.; ZEREKIDZE, V.M.; SHULYATITSKIY, S.M. [Shyliatyts'kyi, S.M.];

KHODURSKIY, Ye.A. [Khodurs'kyi, IE.A.]; OBUSHINSKIY, Ye.I. [Obushyns'kyi,
IE.I.]; GVOZDIK, A.A. [Hvozdyk, A.A.]; NIKITINA, M.A.; LUPASHKO, N.F.;

BESKROVNYY, M.N.; TSIMBLER, M.Ye. [TSymbler, M.IE.]; ILYN, A.N.; TOTADZE,
P.M.; ZHIGURS, Kh.Yu.; ZAKREVSKIY, Ye.S. [Zakrevs'kyi, IE.S.];

FEDOROVICH, A.G. [Fedorovych, A.H.]; CHALENKO, D.K.; KHOMUTOV, D.A.;

SKURIKHIN, I.M.; NILOV, V.I.; YEFIMOV, B.N. [IEfimov, B.N.]; KAZANOVSKIY,
V.S. [Kazanovs'kyi, V.S.]; ZOTIKOV, L.S.; KCCHURENKO, M.A.

Soviet certificates of invention. Khar. prom. no.2:57-59 Ap-Je '65. (MIRA 18:5)

EWP(a)/EWT(m) WH \$/0185/64/009/010/1150/1151 ACCESSION NR: AP4048872 AUTHOR: Brodin, H. S.; Vatul'ov, V. H.; Zakrevs'ky*y, S. V. TITLE: Luminescence appearing in crystals of sodium uranyl acetate irradiated by a ruby taser beam SOURCE: Ukrayins kyty fizytchnyty zhurnal, v. 9, no. 10, 1964, 1150-1151 TOPIC TAGS: nonlinear effect, crystal irradiation, crystalline powder irradiation, crystal irradiation with laser, crystal luminescence, ruby laser beam ABSTRACT: The high intensity of laser beams makes is possible to observe and investigate a series of nonlinear effects. It also makes the observation of luminescence possible when a substance becomes transparent to the frequency of the exciting light. To investigate nonlinear effects, sodium uranyl acetate single crystals and crystalline powders were irradiated with the focused beam of a ruby laser and the luminescence spectra were 1/3 Card

L 24699-65 ACCESSION NR: AP4048872

photographed. Irradiation of crystals with a focused laser beam caused the form at iom of cavities or through-holes. The destruction of the crystals may be due to mechanical forces or to thermal effects. One may conclude that the line-structured single-crystal spectrum is associated with laser excited luminescence resulting from two-photon absorption or absorption of light of another harmonic. It also is possible that this spectral structure is due to luminescence of several defect centers which are formed when the crystal is irradiated by a laser beam. Large overlapping of absorption and luminescence spectra in the case of a single crystal can be associated with the fact that a crystal region which radiates is heated to a high temperature, or that luminescence is superposed by radiation with a continuous spectrum which penetrates through a layer of crystal. Orig. art. has: I figure.

ASSOCIATION: Insty*tut flzy*ky* AN URSR, Kiev (Institute of Physics, AN URSR)

Card 2/3

L 24699-65 ACCESSION NR: AP404887 SUBHITTED: 18Jun64		sub code: Ec.	OP O	
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21392-66 FBD/EVT(1)/EWP(e)/EVT(m)/EEC(k)-2/ETC(f)/EVG(m)/T/EVP(t)/EWP(k)/EWA(h) SOURCE CODE: UR/0185/66/011/003/0344/0345 ACC NR: AP6009073 AUTHOR: Brodin, M. S.; Vytrykhovs'kyy, M. I.; Zakrevs'kyy, S. V.; Reznichenko, V. Ya. ORG: Physics Institute, AN URSR (Instytut fizyky AN URSR); Institute of Semiconductors, AN URSR, Kiev (Instytut napivprovidnykiv AN URSR) 25/2 er-type emission by CdS—CdSe crystals by means of ruby-laser two-TITLE: Laser photon excitation SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 3, 1966, 344-345 TOPIC TAGS: mixed crystal, luminescent crystal, laser pump, laser pumping ABSTRACT: Investigations were made of the emission of CdS-CdSe mixed crystals pumped by a ruby-laser two-photon mechanism to determine the possibility of laser generation. Three-component CdS-CdSe crystals with 28, 37, 63% CdSe were investigated. Their forbidden gap widths at 77K were 2.24, 2.28, and 2.02 ev, respectively. The crystals were cut as rectangle parallelepipeds with accurately polished planeparallel faces. Their thickness varied from 1 to 2.5 mm. Thin single-crystal plates with thickly grooved faces were also investigated. Specimens cooled to 77K were excited by single pulses from a ruby laser. The pump power density varied from 10 to 100 Mw/cm². The emission spectra were photographed with a spectrograph. One narrow band located close to the absorption edge was observed in the luminescence spectra of all crystals at two-photon excitation. The band was sharply polarized in the direction perpendicular to the hexagonal axis c. The width of the band in the Card 1/2

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case of massive crystals with plane-parallel faces decreased when the pumping was increased. At maximum pumping it becomes 10—15 cm⁻¹. Under the same pumping conditions the width of the band of imperfect lamina was considerably larger, conditions the width of the band of imperfect lamina was considerably larger, approximately 80—100 cm⁻¹. The intensity at the maximum of the band increased, approximately 80—100 cm⁻¹. It intensity of 100 Mm/cm² it became quite large. At sufficiently high pumping, the emission of crystals with plane-quite large. At sufficiently high pumping, the emission of crystals of the parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a CdSo_{0.28} crystal 1 mm parallel faces had a directed character. For a C

SZYMANOWSKA, Zofia; POSZWINSKI, P.; MURAWSKI, K.; ZAKREWSKI, K.

Human serum albumins in starch-gel electrophoresis. Acta bicchim. polon. 9 no.2:183-188 162.

1. Department of Biochemistry and the Blood Derivatives Division, Institute of Haematology, Warszawa. (SERUM ALBUMIN chem) (EIECTROPHORESIS)

ε	anxiety condition	ted cases from practical neurology; painful muscle spasms, ty conditions, and glutamic acid. Wiadomosci lek. 8 no.1:			esms.		
2	25-28 Jan 55 (CRAMP,) (GLUTAMATI	(NEUROSE ES, therapeutic	S, ANXIETY,)	ja:			

USSR/General Section - Problems of Teaching.

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Abs Jour

: Referat Zhur - Fizika, No 1, 1958, 76

Author

: Zakrillayev, F.

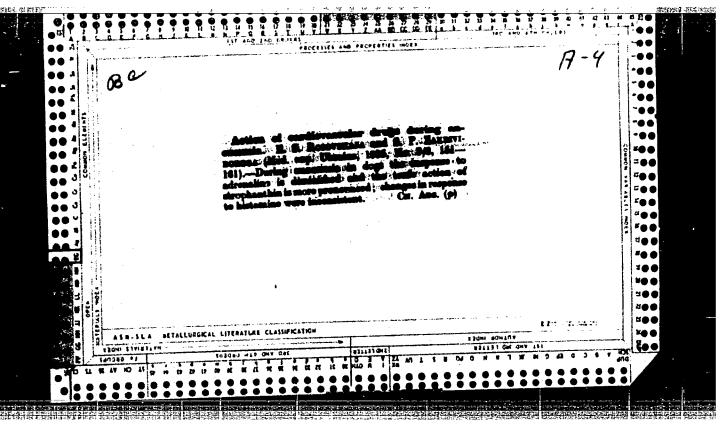
Inst Title

: Solution of Certain Problems in Physics.

Orig Pub : Sovet maktabi, 1957, No 4, 34-36

Abstract : No abstract.

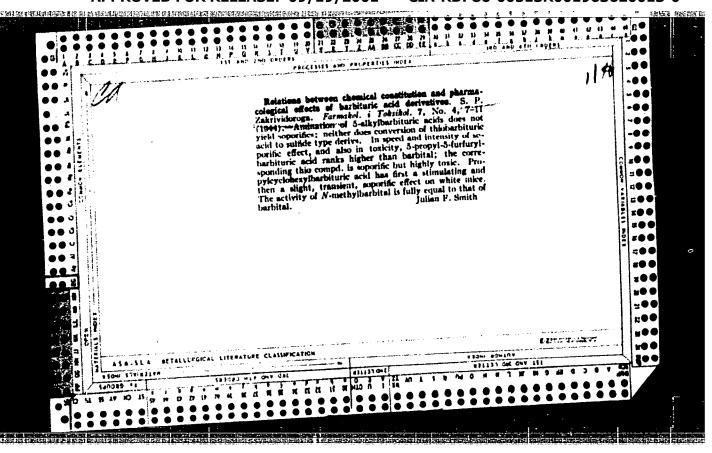
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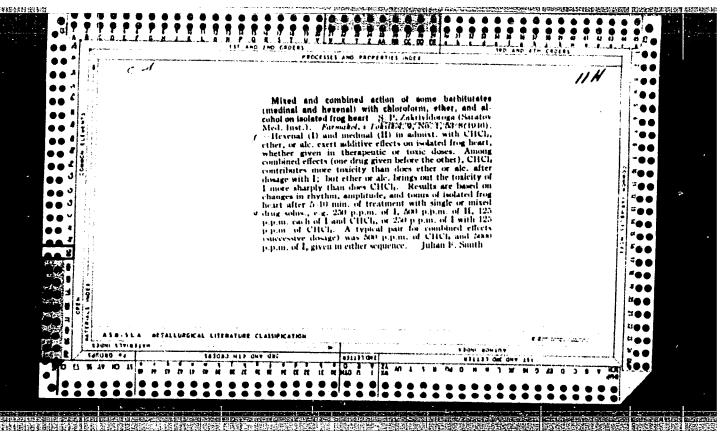
ZAKRIVIDOROGA, S. P.

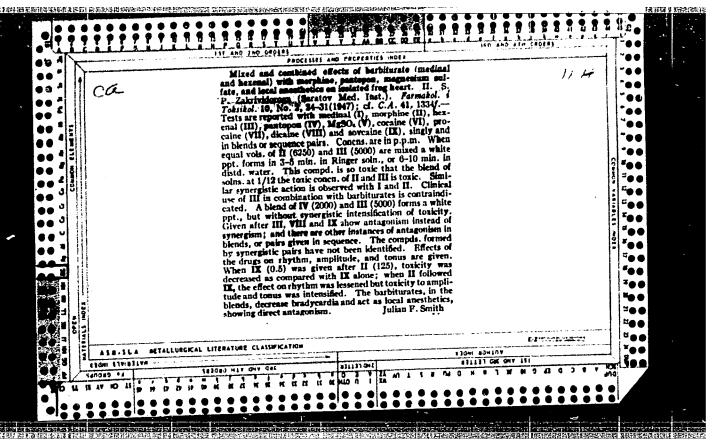
"Experimental Investigations of the Pharmacology of Barbiturates, Hexenal and Eirpan-Sodium," Farmakol. i Toksikol., 5, No.3, 1942.

Chair Pharmacology, 1st Med. Inst.



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25821 Zakrividoroga, S. F. C Propisyvanii I Oformlenii Vrachebnykh Retreptov. Vracheb. Delo, 1913, No. 6, STZ. 531-32
SC: Letopia! Zhurnal Statev, No. 30, Moscow, 1948

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7AKRIVIDORAGA, S. P.

33h81. K Sushchnosti Voprosa Sinergizma I Antagonizma Nekotorykh Lekarstvennykh Veshchestv. Uchen. Zapiski (chernovits. Gos. Med. In-t), T. 1, 1949, C. 39-48

SO: Letopis' Zhurnal'nykh Statey, Vol 45, Moskva, 1949

ZAKRIVIDEROCA, SP

USSR / Pharmacology, Toxicology, Chemotherapeutic Agents

U-7

Abs Jour

: Ref. Zh. Biol., No 2, 1958, No 8101

Author

: Zakrividoroga, S.P., Zamanskiy, L.N.

Inst

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Title

: The Effect of Penicillin and Streptomycin on the Functional Activity of the Thyroid Gland

Orig Pub

: Antibiotiki, 1956, 1, No 5, 40-42

Abstract

: A study was made of the rate of accumulation of J 131 in the thyroid gland of normal rabbits, and in those that received 5,000 units per kg t.i.d. for 10 days of either penicillin or streptomycin. A NaJ solution with labeled J131 (4,000 imp/min) was introduced subcutaneously. The rate of accumulation of J 131 by the thyroid was determined from 20 min to 10 days after its injection. Penicillin and

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620013-0

USSR / Pharmacology, Toxicology, Chemotherapeutic Agents

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Abs Jour

: Ref. Zh. Biol., No 2, 1958, No 8101

Abstract

: streptomycin caused a higher rate of accumulation than normal.

NOSKOV, I.G., kand.sel'skokhoz.næuk (Tashkent); PONOMARENKO, G.Ya.;
ZAKRIVIDOROGA, S.P.; ZAKRIVIDOROGA, Z.S.; LIPSITS, D.V.;
LYUBOVSKAYA, P.I.; POLOTAY, V.A.; TARAKHOVSKIY, M.L.;
FASTOVSKIY, V.L.

Letters to the editor. Zashch. rast. ot vred. i bol. 6 no.8:10 Ag '61. (MIRA 15:12)

1. Vsesoyuznaya stantsiya po raku kartofelya Vsesoyuznogo instituta zashchity rasteniy i Chernovitskiy meditsinskiy institut.

(Plants, Protection of) (Synchytrium—Toxicology)

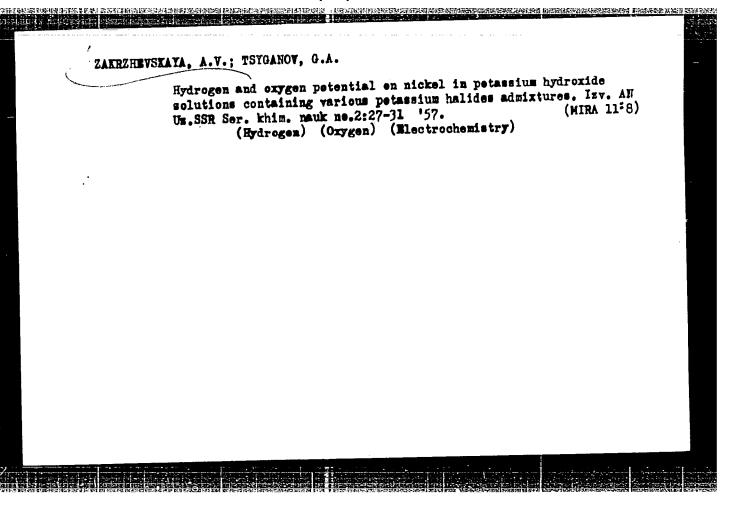
ZAKRZHEVSKAYA, A.V.; TSYGANOV, G.A.

Hydrogen and exygen petential en nickel in petassium hydroxide solutions centaining various alkaline earth salt admixtures. Izv. AN Uz.SSR Ser. khim. nauk no.2:13-25 '57. (MIRA 11:8) (Oxygen) (Hydrogen) (Blectrochemistry)

		ZHEVSKAYA, A.V. 5UM-III. Uzb.khi		5:5-9 164.
			in in its indiana	(MIFM 18:5)
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ZAKRZHEVSKAYA, A. V., Cand Chem Sci -- (diss) "Supertension of hydrogen and oxygen on nickel in potassium hydroxide solutions containing alkaline earth metals." Tashkent, Published of Acad Sci Uzbek SSR, 1958. 17 pp with graphs (Inst of Chemistry, Acad Sci Uzbek SSR, Chirchik Electrochemical Combine im Stalin), 150 copies (KL, 18-58, 95)

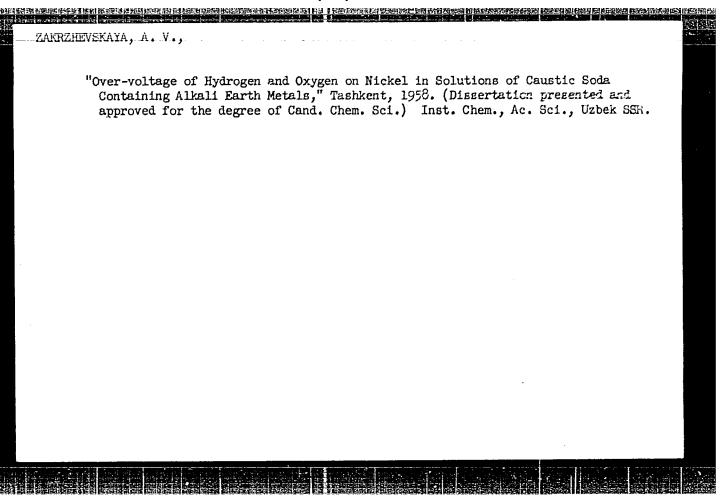
-18-



NABIYEV, M.N., akademik; ZAKRZHEVSKAYA, A.V.

Stady of the gas phase during the decomposition of phosphates and potassium chloride with nitric acid. Uzb. khim. zhur. no.6:3-10 (MIRA 14:1)

1. Institut khimii AN UZSSR. 2. AN UZSSR (for Nabiyev). (Potassium chloride) (Sitric acid)



NABIYEV, M.N., akademik; ZAKRZHEVSKAYA, A.V.; ITSKOVICH, A.M.

Crystallization of a complex nitric-phosphate fertilizer. Usb.

khim. shur. no.1:3-10 '61. (MIRA 14:1)

1. Institut khimii AM UNSSR. 2. Akademiya nauk UNSSR (for Mabiyev).

(Fertilizers and manures)

ACC NR: AP7003245

7/0

SOURCE CODE: UR/0198/66/002/012/0122/0124

AUTHOR: Zakrzhevskiy, A. Ye. (Kiev)

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TITLE: On the construction of a smooth shell element approximately equivalent to a corrugated one

SOURCE: Prikladnaya mekhanika, v. 2, no. 12, 1966, 122-124

TOPIC TAGS: shell structure, shell design, shell theory, orthotropic shell

ABSTRACT: A method for simplifying the design of corrugated shells is presented. It involves replacing a corrugated shell element with an equivalent smooth one after analyzing the forces acting upon it (see Fig. 1).

Fig. 1.

The parameters of an equivalent element are found by the method developed by N. A. Kil'chevskiy (Osnovy analiticheskoy mekhaniki obolochek, v. I, K., Izc-vo AN UkrSSR, 1963). An orthotropic and a "dually" orthotropic element are investigated as the equivalent ones. In this analysis the potential energy of deformation is approximated

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line η = const in the xyz coordinates is taken in the form z = f(x), and equations from the classic theory of orthotropic shells are used, with N_1 , N_2 , M_1 , M_2 , S, H.

taken as uniformly distributed forces acting on a smooth element. Through a brief mathematical analysis, the equations for the desired parameters of an approximately equivalent smooth orthotropic element are derived. Since such an element is frequently unusable, equations for a system with "dual" orthotropy are also derived. They represent an indeterminate system of eight equations with nine unknowns. Taking thickness h* as a free unknown, the following expressions for the desired parameters are obtained:

$$E_{1}^{*} = E \frac{h}{h^{*}} \left(\frac{1}{l} \int_{0}^{l} \cos \theta \, dx + \frac{12}{lh^{2}} \int_{0}^{l} \frac{f^{2}(x)}{\cos \theta} \, dx \right)^{-1};$$

$$E_{2}^{*} = E \frac{h}{h^{*}} \frac{s}{l}; \quad v_{21}^{*} = v;$$

$$v_{12}^{*} = v \frac{l}{s} \left(\frac{1}{l} \int_{0}^{l} \cos \theta \, dx + \frac{12}{lh^{2}} \int_{0}^{l} \frac{f^{2}(x)}{\cos \theta} \, dx \right)^{-1};$$

$$G^{*} = G \frac{h}{h^{*}} \cdot \frac{l}{s}; \quad E_{1}^{*} = E \left(\frac{h}{h^{*}} \right)^{3} \frac{l}{s}; \quad E_{2}^{*} = E \frac{l'_{s} + l'_{s}}{l'_{s}};$$

$$v_{21}^{*} = v \frac{1}{l} \int_{0}^{l} \frac{dx}{\cos^{2}\theta}; \quad v_{12}^{*} = v \frac{l}{s} \frac{l'_{s}}{l'_{s} + l'_{s}};$$

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UR/0366,/65/001/004/0796/0797

AUTEORS: Tilichenko, M. H.; Zakryzhevekaya, L. T.

TITLE: Transition from tricyclohexanolone to exytricyclohexylaming

SCURGE: Zhurnal organicheskoy khimii, v. 1, no. 4, 1965, 796-797

TOPIC TAGS: amine, organic synthesis, reduction method

ABSTRACT: Attempts to use the Leuckart reaction to change Retricyclohexanoloms to R-oxytricyclohexylamines have proved unsuccessful. Instead of the expected hydroxyamines, perhydro- and sym-octahydroacridines are obtained. Reduction of the oximes of the indicated ketoles by sedium and alcohol has been successful. This method has produced from tricyclohexanoloxime a base corresponding to 9-amino-2,3-cyclohexanol(3,3,1)bicyclohenanol-2. The yield is 70%. The product is colorless, hexagonal, with a melting point of 155-156C. The formula is C13H23NO. The hydrochloride, with a formula of C13H23NO*HCl has a melting point of 242-24hC. The picrate, C13H23NO*C6H3N3O7 melts at 214-217C. The n-acetylamine, C15H25NO2, melts at 176-177C. The IR spectrum shows lines at 1650 (C=O), 3330 (NH).

1570, and 3440 cm⁻¹ (OH). The n-benzylidenamine forms readily when solutions of Card 1/2

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ZAKRZHEVSKAYA, N.G.

Studying liquid gas inclusions in the rocks of the Khibiny apatite-nepheline deposits. Izv.vys.ucheb.zav.; geol. i razv. 6 no.10:48-59 0 63. (MIRA 18:4)

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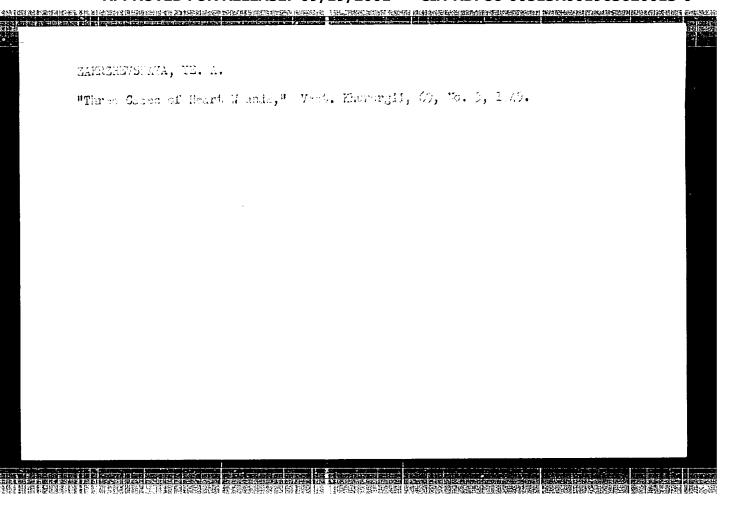
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Origin of gases in the rocks of the Khibiny apatite deposits.

Dokl. AN SSSR 154 no.1:118-120 Ja'64. (MIRA 17:2)

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